

**[54] PREPARATIONS CONTAINING  
METHYLSULFONYLMETHANE AND  
METHODS OF USE AND PURIFICATION****[76] Inventor:** **Robert J. Herschler**, 3080 NW. 8th  
St., Camas, Wash. 98607**[21] Appl. No.:** **277,592****[22] Filed:** **Jun. 26, 1981****Related U.S. Application Data****[62]** Division of Ser. No. 71,068, Aug. 30, 1979, Pat. No.  
4,296,104.**[51] Int. Cl.<sup>3</sup> ..... A61K 31/17****[52] U.S. Cl. .... 424/322****[58] Field of Search ..... 424/322***Primary Examiner*—Stanley J. Friedman*Attorney, Agent, or Firm*—Millen & White, P.C.**[57] ABSTRACT**

Preparations containing methylsulfonylmethane

(MSM) for administration to the skin, nails, other tissue and/or body fluids of a human or other animal subject are disclosed. Such compositions soften skin, strengthen nails and provide other benefits when applied topically. And, MSM compositions may also be administered orally, by injection and by inhalation.

In many instances, the effectiveness of MSM compositions is enhanced when such compositions contain carbamide (urea). Also, carbamide compositions are stabilized when they contain the MSM.

For topical administration, MSM compositions may be formulated in creams, lotions or gels which may be used alone or to serve as stable, neutral vehicles for other skin conditioning substances or therapeutically active drugs. Aqueous MSM solutions are suitable blood diluents.

**25 Claims, No Drawings**